ELSEVIER

Protein Structure & Molecular Enzymology

Vol. 1340, 1997

BIOCHIMICA ET BIOPHYSICA ACTA

BBA

Cumulative Contents

BBA is cited in: Current Contents Life Sciences - Biological Abstracts - Chemical Abstracts - Index Chemicus - Index Medicus - CSA Abstracts - Excerpta Medica (EMBASE) - Reference Update - Current Awareness in Biological Sciences (CABS)

Information for Contributors *vii*

Short sequence-paper

Evolution of phosphagen kinase V. cDNA-derived amino acid sequences of two molluscan arginine kinases from the chiton *Liolophura japonica* and the turbanshell *Battilus cornutus*
T. Suzuki, T. Ban and T. Furukohri (780 Japan) 1

Regular papers

Detection and identification of NAD-catabolizing activities in rat tissue homogenates
T. Hagen and M. Ziegler (Germany) 7

COS-1 cell expression and one-step affinity protein purification and activity of epitope-tagged human erythropoietin and of site-directed mutants
R.M. Bill, S.L. Flitsch and R. Bicknell (UK) 13

Characterization of the heparin-binding domain of human extracellular superoxide dismutase
L.A.E. Tibell, I. Sethson and A.V. Buevich (Sweden) 21

Isolation, partial characterization and localization of a dihydrolipoamide dehydrogenase from the cyanobacterium *Synechocystis* PCC 6803
A. Engels, U. Kahmann, H.G. Ruppel and E.K. Pistorius (Germany) 33

Formation of a ternary complex between GM_2 activator protein, GM_2 ganglioside and hexosaminidase A
F. Yadao, P. Hechtman and F. Kaplan (Canada) 45

Conformational isomerism of IgG antibodies
U.-B. Hansson, C. Wingren and U. Alkner (Sweden) 53

Kinetic studies on the binding of $1,N^6$-etheno-NAD^+ to glutamate dehydrogenase from *Clostridium symbiosum*
L.A. Basso, P.C. Engel and A.R. Walmsley (UK) 63

Prediction of secondary structures of proteins using the sequence and spectroscopical data
B.J. Schubach and K. Rahmelow (Germany) 72

Characterization of a natural larger form of the antifungal protein (AFP) from *Aspergillus giganteus*
A. Martínez-Ruiz, A. Martínez del Pozo, J. Lacadena, J.M. Mancheño, M. Oñaderra and J.G. Gavilanes (Spain) 81

Effect of site-directed mutagenesis of His373 of yeast enolase on some of its physical and enzymatic properties
J.M. Brewer, C.V.C. Glover, M.J. Holland and L. Lebioda (USA) 88

Isolated *Bacillus subtilis* HemY has coproporphyrinogen III to coproporphyrin III oxidase activity
M. Hansson, M.C.U. Gustafsson, C.G. Kannangara and L. Hederstedt (Denmark, Sweden) 97

The possible role of myosin A1 light chain in the weakening of actin–myosin interaction
D. Stępkowski, N. Efimova, A. Paczyńska, A. Moczarska, H. Nieznańska and I. Kąkol (Poland, Russia) 105

Microheterogeneity and intrahepatic localization of human and rat liver cytosolic alanine aminotransferase
T. Matsuzawa, T. Kobayashi, H. Ogawa and M. Kasahara (Japan) 115

Inhibition of human serine proteases by SPAAT, the C-terminal 44-residue peptide from α_1-antitrypsin
M.A. Niemann, J.E. Baggott and E.J. Miller (USA) 123

One-step purification of histidine-tagged cytochrome bo_3 from *Escherichia coli* and demonstration that associated quinone is not required for the structural integrity of the oxidase
J.N. Rumbley, E. Furlong Nickels and R.B. Gennis (USA) 131

Synthetic peptides derived from the central loop of fasciculin: structural analysis and evaluation as inhibitors of acetylcholinesterase
R.J. Falkenstein and C. Peña (Argentina) 143

Purification and characterization of diamine oxidase from porcine kidney and intestine
H.G. Schwelberger and E. Bodner (Austria) 152

Information for Contributors *vii*

Rapid report

Near infrared absorption spectra of human deoxy- and oxyhaemoglobin in the temperature range 20–40°C
R. Sfareni, A. Boffi, V. Quaresima and M. Ferrari (Italy) 165

Short sequence-paper

Nucleotide sequence of a gene cluster encoding NusG and the L11-L1-L10-L12 ribosomal proteins from the thermophilic archaeon *Sulfolobus solfataricus*
M. Geiger, P. Gröbner and W. Piendl (Austria) 170

Regular papers

X-Ray crystal structure determination and molecular dynamics simulation of prophospholipase A_2 inhibited by amide-type substrate analogues
K. Tomoo, A. Yamane, T. Ishida, S. Fujii, K. Ikeda, S. Iwama, S. Katsumura, S. Sumiya, H. Miyagawa and K. Kitamura (Japan) 178

Probing Flp: a new approach to analyze the structure of a DNA recognizing protein by combining the genetic algorithm, mutagenesis and non-canonical DNA target sites
P. Saxena, I. Whang, Y. Voziyanov, C. Harkey, P. Argos, M. Jayaram and T. Dandekar (USA, Germany) 187

Association of the anti-hen egg lysozyme antibody HyHEL-5 with avian species variant and mutant lysozymes
K.A. Shick, K.A. Xavier, A. Rajpal, S.J. Smith-Gill and R.C. Willson (USA) 205

A prediction of DPP IV/CD26 domain structure from a physico-chemical investigation of dipeptidyl peptidase IV (CD26) from human seminal plasma
A.-M. Lambeir, J.F. Díaz Pereira, P. Chacón, G. Vermeulen, K. Heremans, B. Devreese, J. Van Beeumen, I. De Meester and S. Scharpé (Belgium, Spain) 215

Purification and characterization of isocitrate dehydrogenase from a hyperthermophilic archaebacterium, *Caldococcus noboribetus*
M. Aoshima and T. Oshima (Japan) 227

Conformation of thermally denatured RNase T1 with intact disulfide bonds: A study by small-angle X-ray scattering
H. Damaschun, K. Gast, U. Hahn, R. Kröber, M. Müller-Frohne, D. Zirwer and G. Damaschun (Germany) 235

Combined pressure/heat-induced inactivation of butyrylcholinesterase
A. Weingand-Ziadé, F. Renault and P. Masson (France) 245

Computer analysis of phytochrome sequences and reevaluation of the phytochrome secondary structure by Fourier transform infrared spectroscopy
J. Sühnel, G. Hermann, U. Dornberger and H. Fritzsche (Germany) 253

Azotobacter vinelandii glucose 6-phosphate dehydrogenase properties of NAD- and NADP-linked reactions
B.M. Anderson, D.J. Wise and C.D. Anderson (USA) 268

Involvement of the HIV-1 external envelope glycoprotein 120 (gp120) C2 region in gp120 oligomerization
N. Seddiki, H. Bouhlal, L. Rabehi, A. Benjouad, C. Devaux, J.-C. Gluckman and L. Gattegno (France) 277

Cumulative Contents, Vol. 1340 283

Author Index 285